

SCHEDULE 2.3

TECHNICAL REFERENCE SCHEDULE

This **Schedule 2.3** consists of a list of Technical References included by the Parties in their predecessor interconnection agreement for Wisconsin. The Parties acknowledge and agree that many of these Technical References may be outdated, and that additional and/or modified Technical References may need to be incorporated into this **Schedule 2.3**. Further, some Technical References may need to be deleted from this **Schedule 2.3**. Pursuant to **Article II, Section 2.3**, the Parties agree to cooperate on the process of updating this list of necessary Technical References to include additional or modified Technical References that describe the practices, procedures and specifications for certain services (and the applicable interfaces relating thereto) to assist the Parties in meeting their respective responsibilities hereunder. Once updated, the Parties' list of Technical References shall be included in this **Schedule 2.3** via an amendment to the Agreement. Any disputes over the inclusion of a Technical Reference in **Schedule 2.3** shall be handled by the Parties using the dispute resolution process of **Section 28.3**.

Unbundled Network Elements

Unbundled Loop Transmission

Bellcore TA-NWT-000393
ANSI T1.413-1995 Specifications
AM TR-TMO-000122
AM TR-TMO-000123
Bellcore TR-NWT-000393
ANSI T1.102-1993, American National Standard for Telecommunication - Digital
Hierarchy - Electrical Interfaces
Bellcore Technical Requirement TR-NWT-000499, Issue 5, December 1993, section
7
ANSI T1.413-1995
ANSI T1E1 Committee Technical report Number 28

Local Switching

Bellcore FR-NWT-000064 (Local Switching Systems General Requirements)
Bellcore GR-1432-CORE (TCAP)
Bellcore GR-905-CORE (ISUP)
Bellcore GR-1429-CORE (Call Management)
Bellcore GR-1357-CORE (Switched Fractional DS1)
Bellcore GR-1428-CORE (Toll Free Service)
Bellcore GR-1597-CORE (Calling Name)
Bellcore GR-954-CORE (Line Information Database)
Bellcore GR-2863-CORE (Advanced Intelligent Network)

GR-1298-CORE, AIN Switching System Generic Requirements
GR-1299-CORE, AIN Switch-Service Control Point (SCP)/Adjunct Interface
Generic Requirements
TR-NWT-001284, AIN 0.1 Switching System Generic Requirements
SR-NWT-002247, AIN Release 1 Update
ANSI standards Q.931, Q.932
Bellcore TR-NWT-08
Bellcore TR-NWT-303
TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access
Digital Subscriber Lines
Bellcore TR-NWT-303

Dedicated and Shared Transport

AM TR-NIS-000111
AM RT-NIS 000133
ANSI T1.101-1994, American National Standard for Telecommunications -
Synchronization Interface Standard Performance and Availability
ANSI T1.102-1993, American National Standard for Telecommunications - Digital
Hierarchy - Electrical Interfaces
ANSI T1.105-1995, American National Standard for Telecommunications -
Synchronous Optical Network (SONET) - Basic Description including
Multiplex Structure, Rates and Formats
ANSI T1.105.01-1995, American National Standard for Telecommunications -
Synchronous Optical Network (SONET) - Automatic Protection Switching
ANSI T1.105.02-1995, American National Standard for Telecommunications -
Synchronous Optical Network (SONET) - Payload Mappings
ANSI T1.105.03-1994, American National Standard for Telecommunications -
Synchronous Optical Network (SONET) - Jitter at Network Interfaces
ANSI T1.105.03a-1995, American National Standard for Telecommunications -
Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1
Supplement
ANSI T1.105.04-1995, American National Standard for Telecommunications -
Synchronous Optical Network (SONET) - Data Communication Channel
Protocols and Architectures
ANSI T1.105.05-1994, American National Standard for Telecommunications -
Synchronous Optical Network (SONET) - Tandem Connection
ANSI T1.106-1988, American National Standard for Telecommunications - Digital
Hierarchy - Optical Interface Specifications (Single Mode)
ANSI T1.107-1988, American National Standard for Telecommunications - Digital
Hierarchy - Formats Specifications
ANSI T1.107a-1990, American National Standard for Telecommunications - Digital
Hierarchy - Supplement to Formats Specifications (DS3 Format
Applications)
ANSI T1.107b-1991, American National Standard for Telecommunications - Digital
Hierarchy - Supplement to Formats Specifications

- ANSI T1.117-1991, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach)
- ANSI T1.119-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications
- ANSI T1.119.01-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Protection Switching Fragment
- ANSI T1.119.02-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Performance Monitoring Fragment
- ANSI T1.231-1993, American National Standard for Telecommunications - Digital Hierarchy - Layer 1 In-Service Digital Transmission performance monitoring
- ANSI T1.403-1989, Carrier to Customer Installation, DS1 Metallic Interface Specification
- ANSI T1.404-1994, Network-to-Customer Installation - DS3 Metallic Interface Specification
- Bellcore FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements
- Bellcore GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance
- Bellcore GR-253-CORE, Synchronous Optical Network Systems (SONET); Common Generic Criteria
- Bellcore TR-NWT 000507, Transmission, Section 7, Issue 5 (Bellcore, December 1993). (A module of LSSGR, FR-NWT-000064.)
- Bellcore TR-NWT-000776, Network Interface Description for ISDN Customer Access
- Bellcore TR-INS-000342, High-Capacity Digital Special Access Service-Transmission Parameter Limits and Interface Combinations, Issue 1, February 1991

Signaling Transfer Points (STPs)

- ANSI T1.111.2
- ANSI T1.111.3
- ANSI T1.111.4
- ANSI T1.112
- ANSI T1.112.4
- ANSI T1.118
- ANSI T1.111.6
- ANSI T1.112.5

- GR-2863-CORE, CCS Network Interface Specification Supporting Advanced Intelligent Network (AIN)
- GR-2902-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll-Free Service Using Advanced Intelligent Network (AIN)
- Belcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)
- Belcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP)
- ANSI T1.111-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP)
- ANSI T1.111A-1994, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement
- ANSI T1.112-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP)
- ANSI T1.115-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks
- ANSI T1.116-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP)
- ANSI T1.118-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI)
- Belcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)
- Belcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP)

Service Control Points (SCPs)/Call-Related Databases

- SR-TSV-002275 (BOC Notes on the Ameritech Networks, SR-TSV-002275, Issue 2 (Bellcore, April 1994))
- GR-246-CORE, Bell Communications Research Specification of Signaling System Number 7, ISSUE 1 (Bellcore, December 1995)
- GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP). (Bellcore, March 1994)

GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service 6, Issue 1, Rev. 1 (Bellcore, October 1995)
GR-1149-CORE, OSSGR Section 10: System Interfaces, Issue 1 (Bellcore, October 1995) (Replaces TR-NWT-001149)
GR-1158-CORE, OSSGR Section 22.3: Line Information Database 6, Issue (Bellcore, October 1995)
GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service (Bellcore, May 1995)
BOC Notes on Ameritech Networks, SR-TSV-002275, ISSUE 2 (Bellcore, April 1994)
GR-1280-CORE, AIN Service Control Point (SCP) Generic Requirements

Tandem Switching

Bellcore TR-TSY-000540, Issue 2R2, Tandem Supplement, 6/1/90
GR-905-CORE
GR-1429-CORE
GR-2863-CORE
GR-2902-CORE

Performance Standards

Bellcore FR-64, LATA Switching Systems Generic Requirements (LSSGR)
Bellcore TR-NWT-000499, Issue 5, Rev 1, April 1992, Transport Systems Generic Requirements (TSGR): Common Requirements
Bellcore TR-NWT-000418, Issue 2, December 1992, Generic Reliability Assurance Requirements For Fiber Optic Transport Systems
Bellcore TR-NWT-000057, Issue 2, January 1993, Functional Criteria for Digital Loop Carriers Systems
Bellcore TR-NWT-000507, Issue 5, December 1993, LSSGR - Transmission, Section 7
Bellcore TR-TSY-000511, Issue 2, July 1987, Service Standards, a Module (Section 11) of LATA Switching Systems Generic Requirements (LSSGR, FR-NWT-000064)
Bellcore TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines
Bellcore TR-NWT-000909, December 1991, Generic Requirements and Objectives for Fiber In The Loop Systems
Bellcore TR-NWT-000505, Issue 3, May 1991, LSSGR Section 5, Call Processing
Bellcore LSSGR TR-TSY-000511
Bellcore TR-NWT-001244, Clocks for the Synchronized Network: Common Generic Criteria
ANSI T1.105-1995

Network Interface Device

Belcore Technical Advisory TA-TSY-000120, "Customer Premises or Network Ground Wire"

Belcore Generic Requirement GR-49-CORE, "Generic Requirements for Outdoor Telephone Network Interface Devices"

Belcore Technical Requirement TR-NWT-00239, "Indoor Telephone Network Interfaces"

Belcore Technical Requirement TR-NWT-000937, "Generic Requirements for Outdoor and Indoor Building Entrance"

Interconnection

Trunking Interconnection

GR-317-CORE, Switching System generic requirements for Call Control Using the Integrated Services Digital Network User Part (ISDNUP), Bellcore, February, 1994

GR-394-CORE, Switching System generic requirements for Interexchange Carrier Interconnection Using the Integrated Services Digital Network User Part (ISDNUP), Bellcore, February, 1994

FR-NWT-000064, LATA Switching Systems Generic Requirements (LSSGR), Bellcore, 1994 Edition

ANSI T1.111

ANSI T1.112

ANSI T1.113

Belcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)

Belcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll-Free Service

Belcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services

Belcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP)

ANSI T1.110-1992, American National Standard Telecommunications - Signaling System Number 7 (SS7) - General Information;

ANSI T1.111-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP)

ANSI T1.111A-1994, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement

ANSI T1.112-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP)

ANSI T1.113-1995, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Integrated Services Digital Network (ISDN) User Part

ANSI T1.114-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Transaction Capabilities Application Part (TCAP)

ANSI T1.115-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks

ANSI T1.116-1990, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP)

ANSI T1.118-1992, American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI)

Bellcore GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP)

Bellcore GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service

Bellcore Special Report SR-TSV-002275, BOC Notes on the LEC Networks-Signaling

Ameritech Supplement AM-TR-OAT-000069, Common Channel Signaling Network Interface Specifications

Bellcore Standard FR-NWT-000476

ANSI Standard T1.206

Electrical/Optical Interfaces

Bellcore Technical Publication TR-INS-000342, High Capacity Digital Special Access Service, Transmission Parameter Limits and Interface Combinations;

Ameritech Technical Publication TR-NIS-000111, Ameritech OC3, OC12 and OC48 Service Interface Specifications; and

Ameritech Technical Publication AM-TR-NIS-000133, Ameritech OC3, OC12 and OC48 Dedicated Ring Service Interface Specifications.

Collocation

Bellcore Network Equipment Building Systems (NEBS) standards TR-EOP-000063
National Electrical Code (NEC) use latest issue

TA-NPL-000286, NEBS Generic Engineering Requirements for System Assembly and Cable Distribution, Issue 2 (Bellcore, January 1989)

TR-EOP-000063, Network Equipment-Building System (NEBS) Generic Equipment Requirements, Issue 3, March 1988
TR-NWT-000840, Supplier Support Generic Requirements (SSGR), (A Module of LSSGR, FR-NWT-000064), Issue 1 (Bellcore, December 1991)
TR-NWT-001275 Central Office Environment Installations/Removal Generic Requirements, Issue 1, January 1993
Institute of Electrical and Electronics Engineers (IEEE) Standard 383, IEEE Standard for Type Test of Class 1 E Electrical Cables, Field Splices, and Connections for Nuclear Power Generating Stations
National Electrical Code (NEC) use latest issue
TA-NPL-000286, NEBS Generic Engineering Requirements for System Assembly and Cable Distribution, Issue 2 (Bellcore, January 1989)
TR-EOP-000063, Network Equipment-Building System (NEBS) Generic Equipment Requirements, Issue 3, March 1988
TR-EOP-000151, Generic Requirements for 24-, 48-, 130- and 140- Volt Central Office Power Plant Rectifiers, Issue 1 (Bellcore, May 1985)
TR-EOP-000232, General Requirements for Lead-Acid Storage Batteries, Issue 1 (Bellcore, June 1985)
TR-NWT-000154, General Requirements for 24-, 48-, 130-, and 140- Volt Central Office Power Plant Control and Distribution Equipment, Issue 2 (Bellcore, January 1992)
TR-NWT-000295, Isolated Ground Planes: Definition and Application to Telephone Central Offices, Issue 2 (Bellcore, July 1992)
TR-NWT-000840, Supplier Support Generic Requirements (SSGR), (A Module of LSSGR, FR-NWT-000064), Issue 1 (Bellcore, December 1991)
TR-NWT-001275, Central Office Environment Installations/Removal Generic Requirements, Issue 1, January 1993
Underwriters' Laboratories Standard, UL 94